

## ABSTRACT

The present invention provides an audio output apparatus, an audio signal output adjusting method, an audio signal output adjusting process program, and the like capable of preventing the user (listener) from making a complicated sound field setting even in the case where the position of a center speaker is changed.

An audio output apparatus having:

at least one first speaker changeably installed in a predetermined position and outputting an audio signal; and

a plurality of second speakers fixedly installed in positions different from the position of the first speaker and different from each other, and outputting audio signals,

the apparatus generating a sound field according to position relations among the install position of the first speaker and the install positions of the plurality of second speakers when the position of the user is used as a reference,

wherein the apparatus comprises:

a plurality of audio signal detecting means provided in or near the install positions of the second speakers and detecting audio signals output from the first speaker;

speaker position calculating means for obtaining the audio signals detected by the audio signal detecting means, detecting that the install position of the first speaker has been changed on the basis of the obtained audio signals, and calculating the changed install position; and

audio signal output adjusting means, on the basis of the

changed install position of the first speaker and the install positions of the plurality of second speakers, that adjusts output of the audio signal from at least one of the first speaker whose install position has been changed and the plurality of second speakers so that a sound field according to the position relations before the install position of the first speaker was changed is maintained.